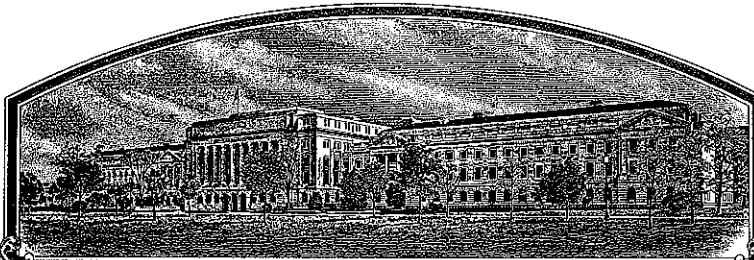


No.

200500236



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

California Oils Corporation

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMERICAL LIMITATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SAFFLOWER

'S-344'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this fourteenth day of February, in the year two thousand and six.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER California Oils Corporation		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 3213	3. VARIETY NAME S-344
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) SeedTec (A division of California Oils Corp) P.O.Box 2210 Woodland, CA 95776		5. TELEPHONE (include area code) (530) 666-7871	FOR OFFICIAL USE ONLY PVPO NUMBER 200500236 FILING DATE May 2, 2005
		6. FAX (include area code) (530) 662-9125	
7. IF THE OWNER NAMED IS NOT A "PERSON". GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation	8. IF INCORPORATED, GIVE STATE OF INCORPORATION California	9. DATE OF INCORPORATION 1982	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Arthur Weisker P.O.Box 2210 Woodland, CA 95776			FILING AND EXAMINATION FEES: \$ 3652.00 DATE 5/2/05 CERTIFICATION FEE: \$ 768.00 DATE 1/6/2006
11. TELEPHONE (include area code) (530) 666-7871	12. FAX (include area code) (530) 662-9125	13. E-MAIL aweisker@caloils.com	
14. CROP KIND (Common Name) safflower	16. FAMILY NAME (Botanical) Compositae	18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP Carthamus tinctorius	17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input checked="" type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input type="checkbox"/> NO (If "no", go to item 23)	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED	
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input checked="" type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	

25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF OWNER

SIGNATURE OF OWNER

NAME (Please print or type)

NAME (Please print or type)

Arthur Weisker

CAPACITY OR TITLE

DATE

Research Director

April 28, 2005

CAPACITY OR TITLE

DATE

Exhibit A: Origin and Breeding History of S-344

The pedigree of S-344 is as follows:

{[(P780.P645)/(P717.P645)]/[(P780/P645)/(P717.P645)//A1655]}
/PCOY//Rc4(378)///S541////CW88OL/////Bacum-1-3m-3m-0m-1-B-b

The subscript "m" indicates that that generation was grown in Mexico. Two generations of purification were made in California and Chile. The final bulk was made from four individual selections, selections 1-1, 7-1, 8-1, and 8-2.

Bacum is a variety released by the Mexican government. It is an early maturing linoleic line that has primarily solid hull but segregates for striped hull as well. Bacum is low in oil content. It is well adapted to growing conditions in Mexico.

C/W 88OL is a fusarium resistant oleic variety that flowers yellow/yellow and has striped seed.

S-541 is a linoleic safflower variety with high oil and striped seed.

Rc4(378) is a plant introduction that is resistant to Race 4 fusarium

PCOY is a rust resistant safflower introduction released by the Idaho Experimental Station in the early 1960's.

A1655 is a thin hulled safflower selection with high oil content released by the Arizona Experimental Station in the 1950's.

P-780, P-717, and P-645 were early releases from Pacific Oilseeds Incorporated. All three are linoleic type safflower varieties.

The final cross was made in Mexico in 1997. The F1 seed was grown in California. The F2 through F4 were grown and selected in Mexico. F5 seed was grown in California for purification. In the F5 plants variability was found for flower color and seed coat. Ten different F6 selections were planted in Chile in winter 2003-2004. Five of these lines were grown in breeding cages in California in 2004. Four of the five lines were found to be uniform for flower color, hull type, oleic acid content, oil content, and height anthesis, maturity, branching pattern, capitula size and capitula number. These four lines were bulked and increased in Chile to create S-344.

S-344 is an oleic type safflower. It blooms and matures midseason. It flowers yellow/orange and has striped seed. S-344 was determined to be uniform and stable for these characteristics as well as plant height, oil content, branching characteristics, capitula size and number, plant vigor, and general uniformity of appearance.

S-344 differs from Bacum in fatty acid profile. Bacum is a linoleic type safflower variety while S-344 is oleic.

S-344 differs from its female parent in flower color and seed type. The female parent flower yellow/yellow and has a solid seed coat while S-344 flowers yellow/orange and has a striped seed coat.

S-344 has been reproduced and judged stable for three generations of reproduction. During the seed increase period S-344 has been judged to be uniform and stable for the traits described in Exhibit C. The variety is uniform and stable and shows no variants for three generations of seed increase and multiplication.

Exhibit B: Statement of Distinctness

S-344 is most similar to S-518. The differences are most pronounced in two traits, spine number and spine size as well as spine index, the product of these two traits.

S-344 has fewer and smaller spines than S-518 (Table 1, Table 2). S-344 averages 10.8 spines per bract over two years while S-518 averaged 15.9. Both of these differences are highly significant in t-tests. S-344 averages 2.0 mm length per spine in two years testing while S-518 averaged 2.8 mm in two years testing. These differences are also highly significant in t-tests. Spine index, the product of spine length x spine number is also high significant between the two varieties. The spine index for S-344 equals 21.8 over two year's testing while S-518 equals 44.4.

**TABLE 1: 2004 SPINE NUMBER, SIZE AND SPINE INDEX COMPARISON
BETWEEN S-344 AND S-518**

S-344					S-518				
	Spine #	Spine Length	Spine Index			Spine #	Spine Length	Spine Index	
1	1	13.0	2.5	32.5		1	15.0	3.0	45.0
2	2	12.0	2.0	24.0		2	17.0	3.0	51.0
3	3	10.0	3.0	30.0		3	15.0	3.0	45.0
4	4	12.0	2.0	24.0		4	15.0	3.0	45.0
5	5	11.0	2.0	22.0		5	17.0	3.0	51.0
6									
7	6	10.0	2.5	25.0		6	17.0	3.0	51.0
8	7	12.0	2.5	30.0		7	17.0	3.0	51.0
9	8	10.0	2.5	25.0		8	18.0	3.0	54.0
10	9	12.0	2.5	30.0		9	16.0	2.5	40.0
11	10	11.0	3.0	33.0		10	15.0	3.0	45.0
12									
13	11	12.0	2.0	24.0		11	17.0	2.5	42.5
14	12	11.0	2.5	27.5		12	19.0	2.5	47.5
15	13	11.0	2.0	22.0		13	16.0	3.0	48.0
16	14	10.0	2.5	25.0		14	17.0	3.0	51.0
17	15	11.0	2.0	22.0		15	18.0	2.5	45.0
18									
19	16	12.0	2.5	30.0		16	15.0	2.5	37.5
20	17	13.0	2.0	26.0		17	15.0	3.0	45.0
21	18	12.0	2.5	30.0		18	16.0	2.5	40.0
22	19	12.0	2.5	30.0		19	17.0	3.0	51.0
23	20	14.0	2.0	28.0		20	15.0	2.5	37.5
24									
25	21	15.0	2.0	30.0		21	17.0	3.0	51.0
26	22	12.0	2.0	24.0		22	16.0	2.5	40.0
27	23	11.0	2.0	22.0		23	14.0	3.0	42.0
28	24	11.0	2.5	27.5		24	17.0	2.5	42.5
29	25	12.0	2.0	24.0		25	17.0	3.0	51.0
30									
31	26	11.0	2.0	22.0		26	17.0	3.0	51.0
32	27	11.0	2.0	22.0		27	17.0	3.0	51.0
33	28	11.0	2.0	22.0		28	17.0	3.0	51.0
34	29	12.0	2.0	24.0		30	17.0	3.0	51.0
35	30								
36									
39	31	11.0	2.0	22.0					
40	32	12.0	2.0	24.0					
41	33	11.0	2.0	22.0					
42	34	13.0	2.0	26.0					
AVERAGE					AVERAGE				
VARIANCE					VARIANCE				
		11.6	2.2	25.8		16.4	2.8	46.7	
		1.2	0.1	12.0		1.3	0.1	23.4	

SPINE NUMBER $t=10.02^{**}$ significant a .01 level of significance
SPINE LENGTH $t=9.06^{**}$ significant a .01 level of significance
SPINE INDEX $t=19.59^{**}$ significant a .01 level of significance

12/2/2005
per applicant's authorization

(BT: 12/2/2005)

**TABLE 2: 2005 SPINE NUMBER, SIZE AND SPINE INDEX COMPARISON
BETWEEN S-344 AND S-518**

S-344					S-518				
	Spine #	Length	Spine Index			Spine #	Length	Spine Index	
1	1	8.0	1.5	12.0		1	17.0	2.5	42.5
2	2	10.0	2.0	20.0		2	14.0	2.5	35.0
3	3	9.0	2.0	18.0		3	16.0	3.0	48.0
4	4	10.0	2.5	25.0		4	16.0	3.0	48.0
5	5	9.0	1.0	9.0		5	14.0	3.0	42.0
6									
7	6	9.0	2.0	18.0		6	14.0	3.0	42.0
8	7	10.0	1.5	15.0		7	18.0	3.0	54.0
9	8	10.0	2.0	20.0		8	14.0	3.0	42.0
10	9	12.0	2.5	30.0		9	13.0	3.0	39.0
11	10	11.0	1.5	16.5		10	15.0	2.5	37.5
12									
13	11	9.0	1.5	13.5		11	17.0	3.0	51.0
14	12	8.0	1.0	8.0		12	17.0	2.5	42.5
15	13	10.0	1.5	15.0		13	16.0	2.5	40.0
16	14	10.0	2.0	20.0		14	14.0	2.5	35.0
17	15	10.0	2.0	20.0		15	13.0	2.5	32.5
18									
19	16	11.0	1.5	16.5		16	14.0	3.0	42.0
20	17	10.0	2.0	20.0		17	16.0	2.5	40.0
21	18	9.0	1.0	9.0		18	17.0	2.5	42.5
22	19	8.0	2.0	16.0		19	14.0	3.0	42.0
23	20	10.0	1.0	10.0		20	15.0	3.0	45.0
24									
25	21	9.0	1.0	9.0		21	15.0	3.0	45.0
26	22	12.0	1.0	12.0		22	16.0	2.5	40.0
27	23	12.0	2.0	24.0		23	14.0	2.5	35.0
28	24	9.0	2.0	18.0		24	13.0	3.0	39.0
29	25	10.0	2.0	20.0		25	14.0	3.0	42.0
30									
31	26	10.0	1.5	15.0		26	14.0	2.5	35.0
32	27	9.0	1.5	13.5		27	14.0	2.5	35.0
33	28	12.0	1.0	12.0		28	16.0	2.5	40.0
34	29	8.0	2.0	16.0		29	17.0	3.0	51.0
35	30	12.0	2.0	24.0		30	16.0	2.5	40.0
36									
37	31	10.0	2.0	20.0		31	16.0	2.5	40.0
38	32	9.0	2.0	18.0		32	17.0	3.0	51.0
39	33	12.0	1.5	18.0		33	16.0	3.0	48.0
40	34	9.0	2.0	18.0		34	17.0	2.5	42.5
41	35	11.0	2.5	27.5		35	16.0	2.5	40.0
42									
43	36	10.0	1.5	15.0		36	14.0	2.5	35.0
44	37	11.0	2.0	22.0		37	16.0	2.5	40.0
45	38	11.0	1.5	16.5		38	16.0	2.5	40.0

46	39	11.0	2.0	22.0	39	14.0	2.5	35.0
47	40	9.0	2.0	18.0	40	17.0	3.0	51.0
48								
49	41	10.0	1.0	10.0	41	16.0	3.0	48.0
50	42	9.0	2.0	18.0	42	17.0	3.0	51.0
51	43	9.0	1.5	13.5	43	15.0	3.0	45.0
52	44	10.0	1.5	15.0	44	14.0	2.5	35.0
53	45	10.0	2.0	20.0	45	16.0	2.0	32.0
54								
55	46	9.0	2.0	18.0	46	16.0	3.0	48.0
56	47	11.0	1.0	11.0	47	15.0	2.5	37.5
57	48	8.0	2.0	16.0	48	17.0	3.0	51.0
58	49	11.0	2.0	22.0	49	16.0	3.0	48.0
59	50	10.0	2.0	20.0	50	17.0	2.5	42.5
60								
61	51	10.0	2.0	20.0	51	15.0	3.0	45.0
62	52	12.0	2.5	30.0	52	15.0	2.5	37.5
63	53	11.0	2.0	22.0	53	16.0	2.5	40.0
64	54	13.0	2.0	26.0	54	16.0	2.0	32.0
65	55	9.0	1.0	9.0	55	18.0	2.5	45.0
66								
67	56	8.0	2.0	16.0	56	16.0	3.0	48.0
68	57	10.0	2.5	25.0	57	18.0	3.0	54.0
69	58	11.0	2.0	22.0	58	17.0	2.5	42.5
70	59	9.0	2.0	18.0	59	16.0	3.0	48.0
71	60	11.0	2.0	22.0	60	14.0	3.0	42.0
72								
73	61	11.0	1.5	16.5	61	16.0	2.5	40.0
74	62	7.0	2.0	14.0	62	14.0	3.0	42.0
75	63	11.0	1.5	16.5	63	17.0	2.0	34.0
76	64	10.0	1.5	15.0	64	14.0	3.0	42.0
77	65	11.0	2.0	22.0				
AVERAGE		10.0	1.8	17.7	AVERAGE	15.5	2.7	42.1
VARIANCE		1.6	0.2	25.4	VARIANCE	1.8	0.1	31.4

SPINE NUMBER $t=24.2^{**}$ significant a .01 level of significance
 (BT:12/2/2005 per applicants authorization)

SPINE LENGTH $t=14.9^{**}$ significant a .01 level of significance

SPINE INDEX $t=26.1^{**}$ significant a .01 level of significance
 (BT:12/2/2005)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Safflower)

INSTRUCTIONS: See Reverse.

OBJECTIVE DESCRIPTION OF VARIETY
SAFFLOWER (CARTHAMUS TINCTORIUS)

NAME OF APPLICANT(S)

California Oils Corporation

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

SeedTec (A division of California Oils Corp.)

P.O.Box 2210

Woodland, CA 95776

FOR OFFICIAL USE ONLY

PVPO NUMBER

200500236

VARIETY NAME OR TEMPORARY
DESIGNATION 'S-344'

<3213-64: 6/8/2005)

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g., or) when number is either 99 or less or 9 or less.

1. MATURITY (From Emergence):

Location: 1 = CALIFORNIA & ARIZONA 2 = MIDWEST

NO. OF DAYS TO MATURITY

NO. OF DAYS EARLIER THAN

NO. OF DAYS LATER THAN

1 = GILA 2 = FRIO 3 = US-10

Maturity Class: 1 = EARLY (less than 110 days) 2 = MEDIUM EARLY (110 to 120 days)
3 = MEDIUM LATE (121 to 130 days) 4 = LATE (more than 130 days)

2. PLANT HEIGHT AT MATURITY:

CM. HEIGHT

CM. SHORTER THAN

CM. TALLER THAN

1 = GILA 2 = FRIO 3 = US-10

3. FLOWER COLOR:

Type: Fresh Flower Wilted Flower
01 = WHITE GREYISH-WHITE
02 = LIGHT YELLOW GREYISH-WHITE
03 = LIGHT-ORANGE BASE ORANGE BASE
04 = YELLOW YELLOW (US-10)
05 = YELLOW LIGHT ORANGE BASE
06 = YELLOW ORANGE (Gila)

Fresh Flower Wilted Flower
07 = ORANGE LIGHT RED
08 = REDDISH ORANGE DEEP RED
09 = YELLOW BASE & TIPS
OF LOBES ORANGE ORANGE
10 = PALE-YELLOW PALE-YELLOW
11 = OTHER (Specify)

4. SPINES ON INVOLUCRAL BRACTS:

1 = ABSENT 2 = PRESENT

Location: 1 = TIP ONLY 2 = TIP & FEW BASAL 3 = TIP & ALONG MARGINS 4 = MARGINS ONLY

MM. LENGTH (A)

NUMBER (B)

SPINE INDEX (A x B)

Spine Index Class: 1 = 0-20 2 = 21-40 3 = 41-60 4 = 61-80 5 = 81-100 6 = 101-120

5. HEADS (For Plant Populations of 593,000 Plants/Hectare):

MM. DIAMETER (Primary Heads)

Seed Shattering Percentage: 1 = 1-10 2 = 11-30 3 = OVER 30

6. SEED:

Color: 1 = WHITE 2 = CREAM 3 = GRAY 4 = GRAY WITH WHITE TIP
5 = GRAY STRIPED 6 = PURPLE STRIPED 7 = BROWN STRIPED 8 = BROWN BLOTCH
9 = OTHER (Specify)

Hull Type: 1 = NORMAL 2 = THIN-HULLED 3 = STRIPED 4 = REDUCED

MM. WIDTH

MM. LENGTH

GRAMS PER 1000 SEED

7. SEEDLING VIGOR: (6 weeks after seeding at 2.5 cm. depth with ample moisture for germination; mean of 20 plants)

NUMBER OF NODES

CM. TALL (Soil Surface to Tip)

8. COLD RESISTANCE AT DIFFERENT STAGES AND TEMPERATURES (BT: 6/8/2005 per applicant's permission) 200500236

☐ Rosette:

☐ Bolting:

☐ Flowering:

1 = -10°C. 2 = -5°C. 3 = 0°C. 4 = 5°C. 5 = 10°C.

9. DISEASE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☐ RUST (Specify races) _____

☐ PHYTOPHTHORA ROOT ROT

☐ PYTHIUM ROOT ROT

☐ FUSARIUM WILT

☐ VERTICILLIUM WILT

☐ CERCOSPORA LEAF SPOT

☐ SCLEROTINA STEM ROT

☐ ALTERNARIA LEAF SPOT

☐ ALTERNARIA BUD ROT

☐ BOTRYTIS HEAD ROT

☐ RHIZOCTONIA BLIGHT

☐ BACTERIAL BLIGHT

☐ CUCUMBER MOSAIC

☐ PHYLLODY

☐ OTHER (Specify) _____

10. INSECT AND NEMATODE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☐ GREEN PEACH APHID

☐ LEAF-CURL PLUM APHID

☐ BLACK BEAN APHID

☐ WESTERN FLOWER THRIPS

☐ LYGUS BUGS

☐ STINKBUGS

☐ ROOT-KNOT NEMATODE

☐ OTHER (Specify) _____

11. INDICATE A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	VARIETY	CHARACTER	VARIETY
Frost Hardiness	S-518	Lodging	S-518
Seed Shattering	S-518	No. of Branches	S-518
Seedling Vigor	S-518		

12. GIVE THE FOLLOWING DATA FOR SUBMITTED AND A SIMILAR VARIETY *:

VARIETY	HULL (%)	PROTEIN (%)	OIL (%)	IODINE (%)	ACIDS SATURATED (%)	ACIDS UNSATURATED	
						OLEIC (%)	LINOLEIC (%)
Submitted			44.2		7.6	78.1	12.6
Similar			42.7		7.2	78.8	12.9
Name of Similar Variety			S-518		S-518	S-518	S-518

*Hull, protein, and oil percentages expressed for whole undecorticated seed; acids expressed as percentages of oil.

REFERENCES

- Knowles, P.F. & M.D. Miller. 1965. Safflower. Cal. Ag. Exp. Sta. Circ. 532. 51 p.
 - Weiss, E.A. 1971. Castor, Sesame, and Safflower. Barnes & Noble, Inc. N.Y. 901 p.
- Nickerson's or any recognized color fan may be used to determine plant colors of described variety.

COMMENTS:

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) California Oils Corporation	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 3213	3. VARIETY NAME S-344
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) SeedTec (A division of California Oils) P.O.Box 2210 Woodland, CA 95776	5. TELEPHONE (Include area code) (530) 666-7871	6. FAX (Include area code) (530) 662-9125
7. PVPO NUMBER 200500236		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

☒

YES

☐

NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

☒

YES

☐

NO

10. Is the applicant the original owner?

☒

YES

☐

NO

If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐

YES

☐

NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐

YES

☐

NO

If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed).

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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